

CLAIMS

1. Method for manufacturing brushes whereby brush bodies are provided with brush fibers and these brush fibers are then cut off by means of a device comprising at least a rotating cutting knife and a counter knife, wherein the brush fibers are cut off by making the cutting knife as well as the counter knife carry out a rotational movement, mainly along one and the same axis of rotation.
2. Method according to claim 1, wherein the above-mentioned knives, the rotating knife and the counter knife respectively, are driven in one or several of the following ways:
- such that the rotating cutting knife and the counter knife move in the opposite sense of rotation, at least for a part of the cutting cycle;
 - such that the rotating cutting knife moves continuously rotating in one direction and such that the counter knife moves continuously rotating in the opposite direction;
 - such that the rotating cutting knife and the counter knife are moved, at least for a part of the cutting cycle, in the same sense of rotation but at a different rotational speed;
 - such that at least one of the knives, in other words the cutting knife and/or the counter knife, are displaced with an oscillating movement, thus rotating back and forth;

- such that the cutting knife and the counter knife are driven at different rotational speeds;
- such that the cutting knife and the counter knife are driven at such a speed that the successive intersections, intersecting lines respectively, move
5 according to a rotating path.

3. Method according to claim 1, wherein use is made of a rotating cutting knife with several cutting edges
10 and/or of several counter knives.

4. Method according to claim 1, wherein the device for cutting the brush fibers and the brushes to be cut, in order to cover the entire fiber pack of brush fibers,
15 are mutually moved along one another.

5. Method according to claim 1, wherein a cutting operation is carried out whereby the device for cutting the brush fibers extends with its axial axis crosswise crosswise in relation to the longitudinal direction of the fiber pack consisting of the brush
20 fibers to be cut.

6. Method according to claim 1, wherein the brush fibers
25 are provided with a profile, to which end at least one of the following two techniques or the combination of the following two techniques is applied:

- the use of a profiled rotating cutting knife and a counter knife working in conjunction with it;
- 30 - altering the distance between the rotating cutting knife and the brush body of the brushes to be cut,

such that the cutting knife penetrates deeper or less deep in the fiber pack.

7. Device for cutting brush fibers, of the type which
5 comprises at least a rotating cutting knife and at least one counter knife, wherein the counter knife can be moved.
8. Device according to claim 7, wherein the counter knife
10 can rotate around the same axis of rotation as the rotating cutting knife.
9. Device according to claim 8, having driving means which are selected from the following possibilities:
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 - driving means which drive the rotating cutting knife and the counter knife at least for a part of the cutting cycle in the opposite sense of rotation;
 - driving means which drive the rotating cutting knife continuously rotating in one direction and which
20 drive the counter knife continuously rotating in the opposite direction;
 - driving means which drive the rotating cutting knife and the counter knife at least for a part of the cutting cycle in the same sense of rotation, but at
25 a different rotational speed;
 - driving means which drive at least one of the knives, in other words the cutting knife and/or the counter knife, with an oscillating movement, thus rotating back and forth;
 - 30 - driving means which drive the cutting knife and the counter knife at different rotational speeds;

- driving means which drive the cutting knife and the counter knife at such a speed that the successive intersections, intersecting lines respectively, move according to a rotating path.

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10. Device according to claim 7, having a rotating cutting knife with several cutting edges and/or several counter knives.

10 11. Device according to claim 7, having means which make it possible to provide a profile in the brush fibers, whereby these means provide for one of the following two techniques or the combination of the following two techniques:

- 15 - the use of a profiled rotating cutting knife and a counter knife working in conjunction with it;
 - the displacement of the rotating cutting knife towards the brush, such that the cutting knife penetrates into the fiber pack;
 - 20 - the displacement of the rotating cutting knife according to a straight path along the brush, either at an angle or up to a given place;
 - the displacement of the rotating cutting knife along the brush according to a controlled path, in particular a non-straight path or an interrupted path.
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